Query 1 :

Create a stored procedure in the Northwind database that will calculate the average value of Freight for a specified customer.Then, a business rule will be added that will be triggered before every Update and Insert command in the Orders controller,and will use the stored procedure to verify that the Freight does not exceed the average freight. If it does, a message will be displayed and the command will be cancelled.

```
create procedure avgfreightbycustkvl(@CustId varchar(10))
as
begin
	select CustomerID, AVG(Freight) as [Average Freight]
	from Orders
	where CustomerID=@CustId
	group by CustomerID
end

exec avgfreightbycustkvl 'VINET'


create procedure insertintoorderskvl(@OrderID int, @CustomerID nchar(5),
 @EmployeeID int, @OrderDate datetime, @RequiredDate datetime,
 @ShippedDate datetime, @ShipVia int, @Freight money, @ShipName nvarchar(40),
 @ShipAddress nvarchar(40), @ShipCity nvarchar(40), @ShipRegion nvarchar(40),
 @ShipPostalCode nvarchar(40), @ShipCountry nvarchar(40))
as
begin
	declare @avgfreight money, @newCustomerID nchar(5)
	set @newCustomerID = @CustomerID
	set @avgfreight = (select AVG(Orders.Freight) from Orders where CustomerID =
@CustomerID)

	if(@avgfreight>@Freight)
	begin
		INSERT INTO Orders(OrderID, CustomerID, EmployeeID, OrderDate,
RequiredDate, ShippedDate, ShipVia, Freight, ShipName, ShipAddress, ShipCity,
ShipRegion, ShipPostalCode, ShipCountry)
		VALUES (@OrderID, @CustomerID, @EmployeeID, @OrderDate,
@RequiredDate, @ShippedDate, @ShipVia, @Freight, @ShipName, @ShipAddress,
@ShipCity, @ShipRegion, @ShipPostalCode, @ShipCountry)
	end

	 else
	 begin
```

```
                RAISERROR ('Inserted Freight is more than the average freight of Customer'
, 10, 1)
            ROLLBACK TRANSACTION
        end
END


SET IDENTITY_INSERT  Orders ON

exec insertintoorderskvl '10246', 'VINET', '5', '', '', '', '1', '10', '', '', '',
'', '', ''


create procedure updateorderskvl(@OrderID int, @CustomerID varchar(10),
@EmployeeID int, @OrderDate datetime, @RequiredDate datetime, @ShippedDate
datetime, @ShipVia int, @Freight money, @ShipName nvarchar(40), @ShipAddress
nvarchar(40), @ShipCity nvarchar(40), @ShipRegion nvarchar(40), @ShipPostalCode
nvarchar(40), @ShipCountry nvarchar(40))
as
begin
        declare @avgfreight money, @newCustomerID nchar(5)
        set @newCustomerID = @CustomerID
        set @avgfreight = (select AVG(Orders.Freight) from Orders where CustomerID =
@CustomerID)

        if(@avgfreight>@Freight)
        begin
                update Orders
                set EmployeeID = @EmployeeID,
                        OrderDate = @OrderDate,
                        RequiredDate = @RequiredDate,
                        ShippedDate = @ShippedDate,
                        ShipVia = @ShipVia,
                        Freight = @Freight,
                        ShipName = @ShipName,
                        ShipAddress = @ShipAddress,
                        ShipCity = @ShipCity,
                        ShipRegion = @ShipRegion,
                        ShipPostalCode = @ShipPostalCode,
                        ShipCountry = @ShipCountry
                        where OrderID = @OrderID and CustomerID = @CustomerID
        end

        else
        begin
                RAISERROR ('updated Freight is more than the average freight of Customer'
, 10, 1)
            ROLLBACK TRANSACTION
```

```
        end
END

exec updateorderskvl '10248', 'VINET', '5', '', '', '', '1', '12', '', '', '', '',
'', ''

select * from Orders
where CustomerID = 'VINET'
```

```
exec insertintoorderskvl '10246', 'VINET', '5', '', '', '', '1', '10', '', '', '',
'', '', ''
```

```
Messages

(1 row affected)

Completion time: 2023-02-08T14:40:32.0719719+05:30
```

```
    begin
       RAISERROR ('updated Freight is more than the average freight of Customer'
       ROLLBACK TRANSACTION
    end
END

exec updateorderskvl '10248', 'VINET', '5', '', '', '', '1', '12', '', '', '', '',
'', ''

select * from Orders
where CustomerID = 'VINET'
```

```
updated Freight is more than the average freight of Customer
Msg 3903, Level 16, State 1, Procedure updateorderskvl, Line 30 [Batch Start L
The ROLLBACK TRANSACTION request has no corresponding BEGIN TRANSACTION.
```

Query 2 :

write a SQL query to Create Stored procedure in the Northwind database to retrieve Employee Sales by Country */

```
ALTER PROCEDURE "EmployeeSalesbyCountry"
@Beginning_Date DateTime, @Ending_Date DateTime AS
SELECT Employees.Country as County,SUM("Order Subtotals".Subtotal)
      AS TotalAmount
FROM   Employees INNER JOIN
      (Orders INNER JOIN "Order Subtotals" ON
            Orders.OrderID = "Order Subtotals".OrderID)
ON     Employees.EmployeeID = Orders.EmployeeID
WHERE  Orders.ShippedDate Between @Beginning_Date AND @Ending_Date
GROUP BY Employees.Country
```

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```
ALTER PROCEDURE "EmployeeSalesbyCountry"
@Beginning_Date DateTime, @Ending_Date DateTime AS
SELECT Employees.Country as County,SUM("Order Subtotals".Subtotal)
       AS TotalAmount
FROM   Employees INNER JOIN
       (Orders INNER JOIN "Order Subtotals" ON
       Orders.OrderID = "Order Subtotals".OrderID)
ON     Employees.EmployeeID = Orders.EmployeeID
WHERE  Orders.ShippedDate Between @Beginning_Date AND @Ending_Date
GROUP BY Employees.Country
```

280 %

Messages

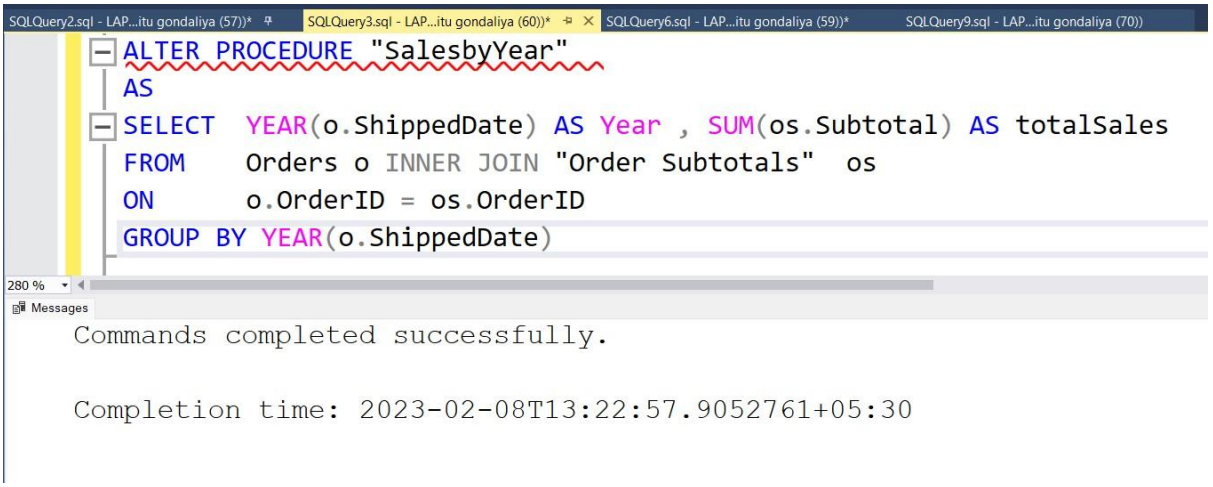
```
Commands completed successfully.

Completion time: 2023-02-08T14:02:42.5062761+05:30
```

EXECUTE EmployeeSalesbyCountry '1996-06-14', '1998-07-15'

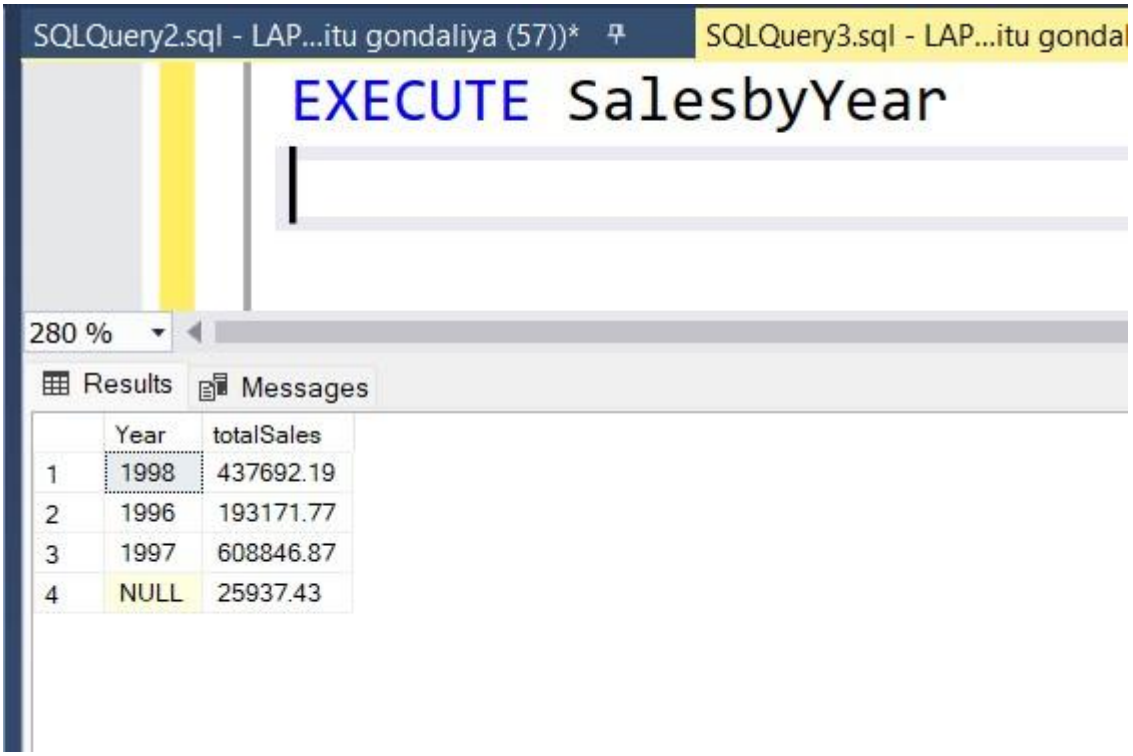
Query 3 :

write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales by Year */

```
ALTER PROCEDURE "SalesbyYear"
AS
SELECT  YEAR(o.ShippedDate) AS Year , SUM(os.Subtotal) AS totalSales
FROM    Orders o INNER JOIN "Order Subtotals"  os
ON      o.OrderID = os.OrderID
GROUP BY YEAR(o.ShippedDate)
```



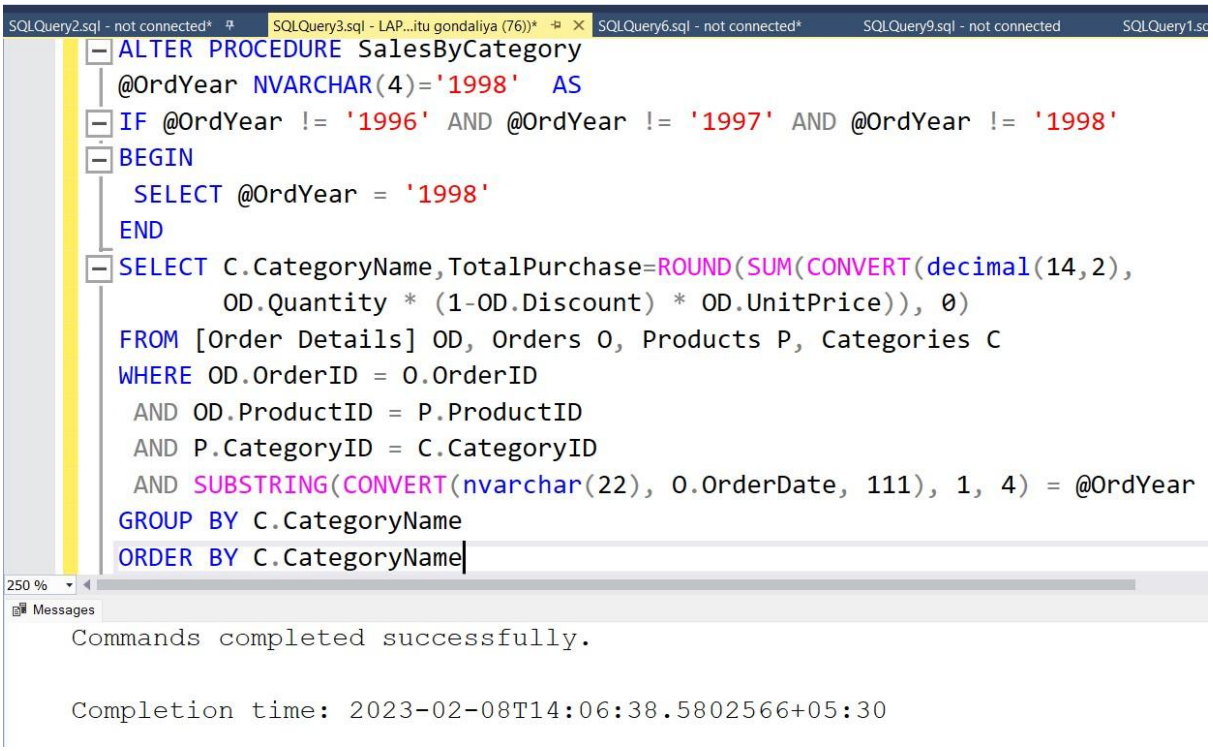
EXECUTE SalesbyYear



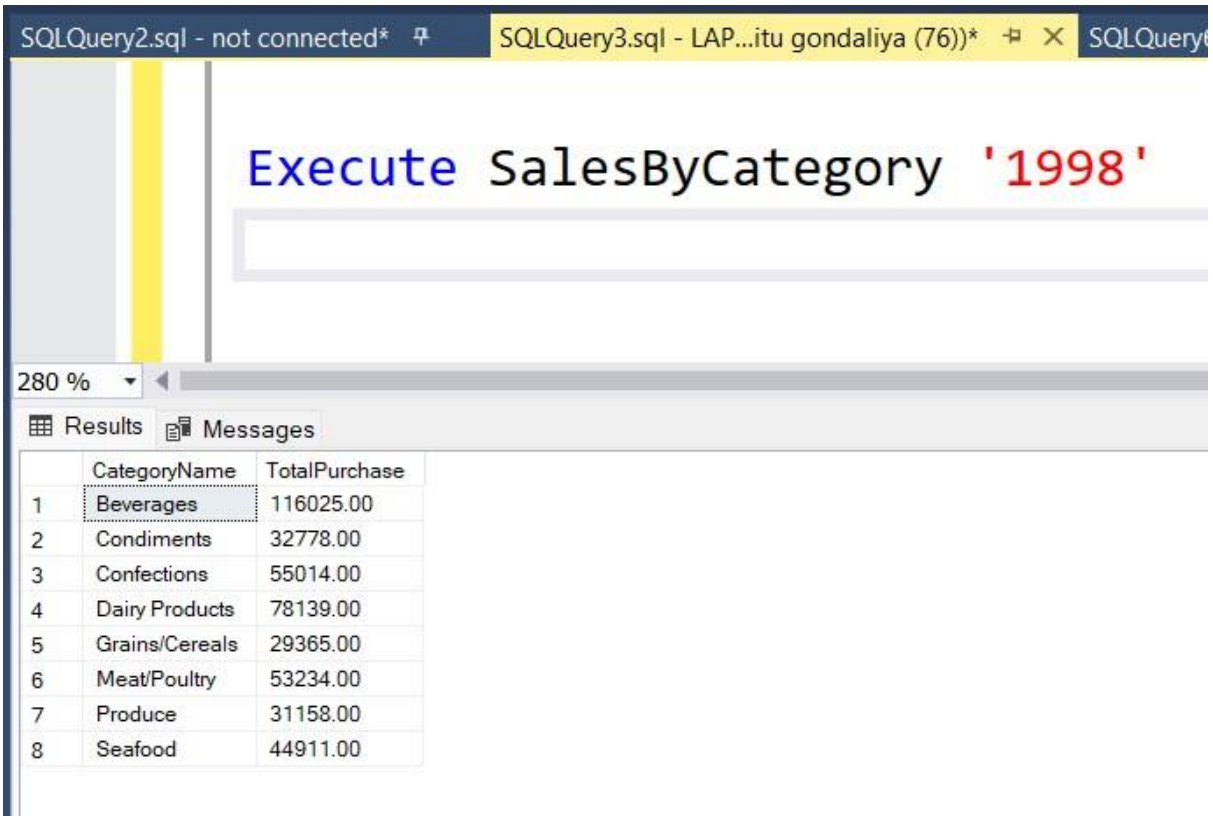
Query 4 :

write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales By Category */

```
ALTER PROCEDURE SalesByCategory
@OrdYear NVARCHAR(4)='1998'  AS
IF @OrdYear != '1996' AND @OrdYear != '1997' AND @OrdYear != '1998'
BEGIN
 SELECT @OrdYear = '1998'
END
SELECT C.CategoryName,TotalPurchase=ROUND(SUM(CONVERT(decimal(14,2),
      OD.Quantity * (1-OD.Discount) * OD.UnitPrice)), 0)
FROM [Order Details] OD, Orders O, Products P, Categories C
WHERE OD.OrderID = O.OrderID
 AND OD.ProductID = P.ProductID
 AND P.CategoryID = C.CategoryID
 AND SUBSTRING(CONVERT(nvarchar(22), O.OrderDate, 111), 1, 4) = @OrdYear
GROUP BY C.CategoryName
ORDER BY C.CategoryName
```



Execute SalesByCategory '1998'

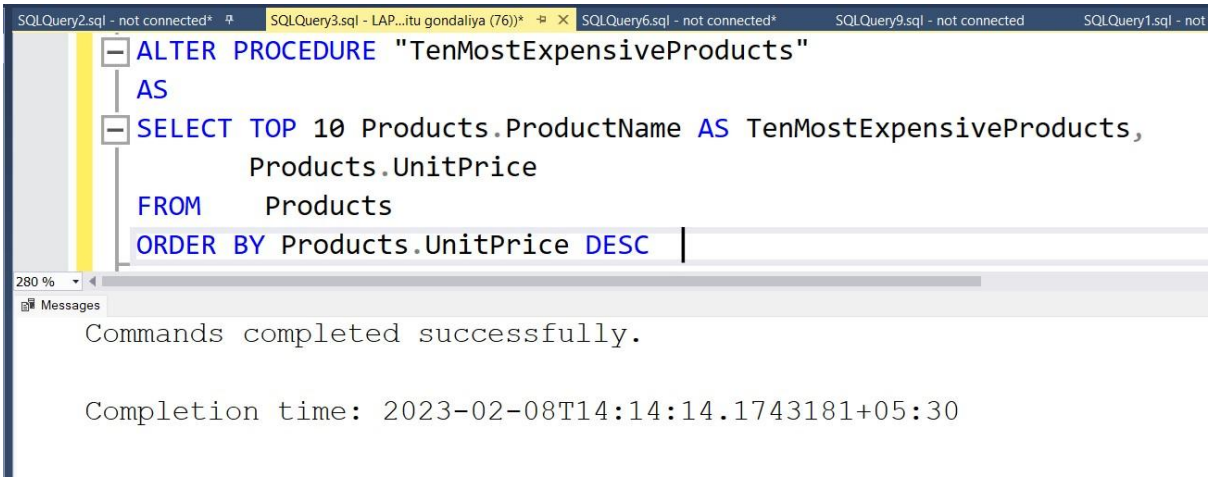


	CategoryName	TotalPurchase
1	Beverages	116025.00
2	Condiments	32778.00
3	Confections	55014.00
4	Dairy Products	78139.00
5	Grains/Cereals	29365.00
6	Meat/Poultry	53234.00
7	Produce	31158.00
8	Seafood	44911.00

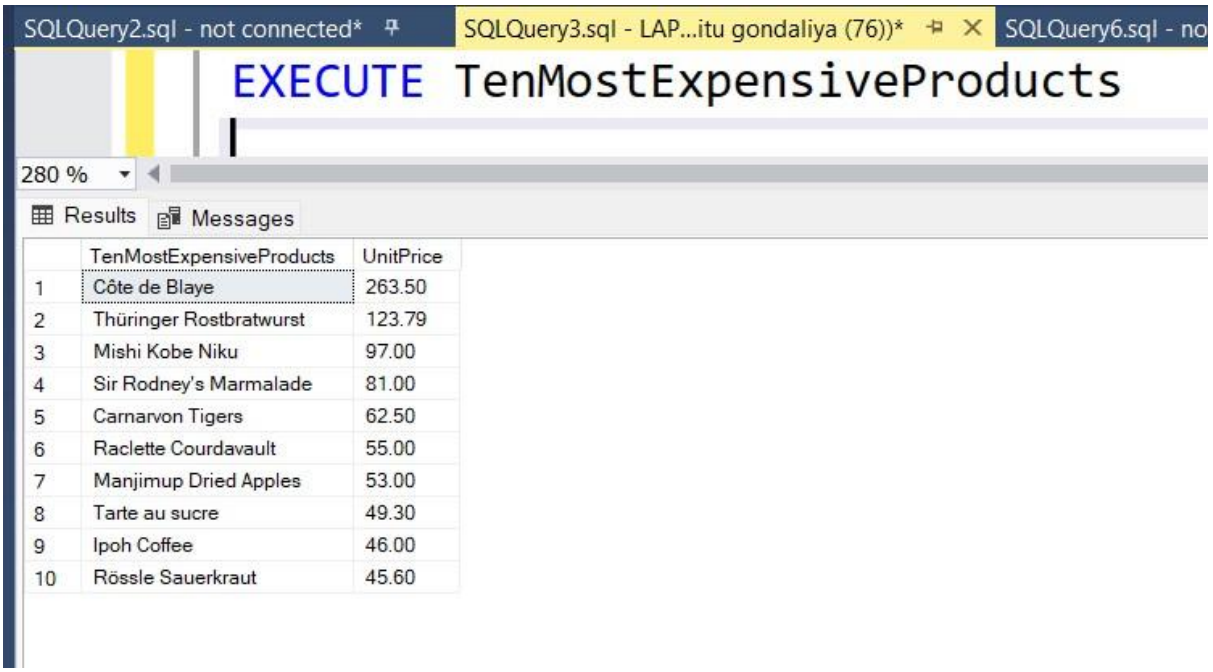
Query 5 :

write a SQL query to Create Stored procedure in the Northwind database to retrieve Ten Most Expensive Products */

```
ALTER PROCEDURE "TenMostExpensiveProducts"
AS
SELECT TOP 10 Products.ProductName AS TenMostExpensiveProducts,
      Products.UnitPrice
FROM    Products
ORDER BY Products.UnitPrice DESC
```



EXECUTE TenMostExpensiveProducts



	TenMostExpensiveProducts	UnitPrice
1	Côte de Blaye	263.50
2	Thüringer Rostbratwurst	123.79
3	Mishi Kobe Niku	97.00
4	Sir Rodney's Marmalade	81.00
5	Carnarvon Tigers	62.50
6	Raclette Courdavault	55.00
7	Manjimup Dried Apples	53.00
8	Tarte au sucre	49.30
9	Ipoh Coffee	46.00
10	Rössle Sauerkraut	45.60

Query 6 :

write a SQL query to Create Stored procedure in the Northwind database to insert Customer Order Details*/

```
ALTER PROCEDURE "CustomerOrderDetails"
@OrderId INT , @ProductId INT , @UnitPrice FLOAT,
@Quantity INT,@Discount FLOAT
AS
BEGIN
  INSERT INTO [Order Details] VALUES
  (@OrderId, @ProductId, @UnitPrice,@Quantity, @Discount)
END
```

SQLQuery2.sql - not connected* | SQLQuery3.sql - LAP...itu gondaliya (71))* | SQLQuery6.sql - not connected* | SQLQuery9.sql - not connected

```
ALTER PROCEDURE "CustomerOrderDetails"
@OrderId INT , @ProductId INT , @UnitPrice DECIMAL(10,2),
@Quantity INT,@Discount FLOAT
AS
BEGIN
   INSERT INTO [Order Details] VALUES
   (@OrderId, @ProductId, @UnitPrice,@Quantity, @Discount)
END
```

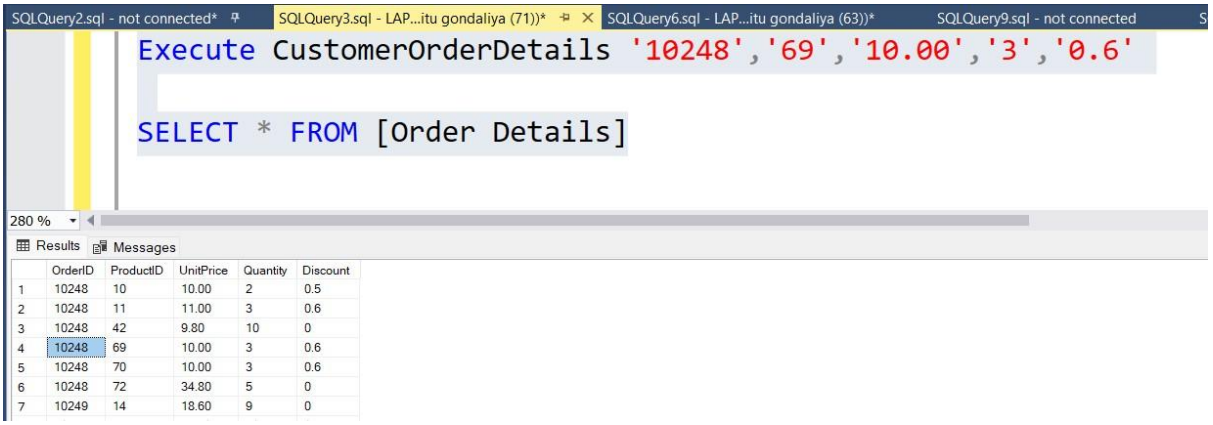
280 %

Messages

```
Commands completed successfully.

Completion time: 2023-02-08T14:21:24.9330402+05:30
```

Execute CustomerOrderDetails '10248','69','10.00','3','0.6'

SELECT * FROM [Order Details]

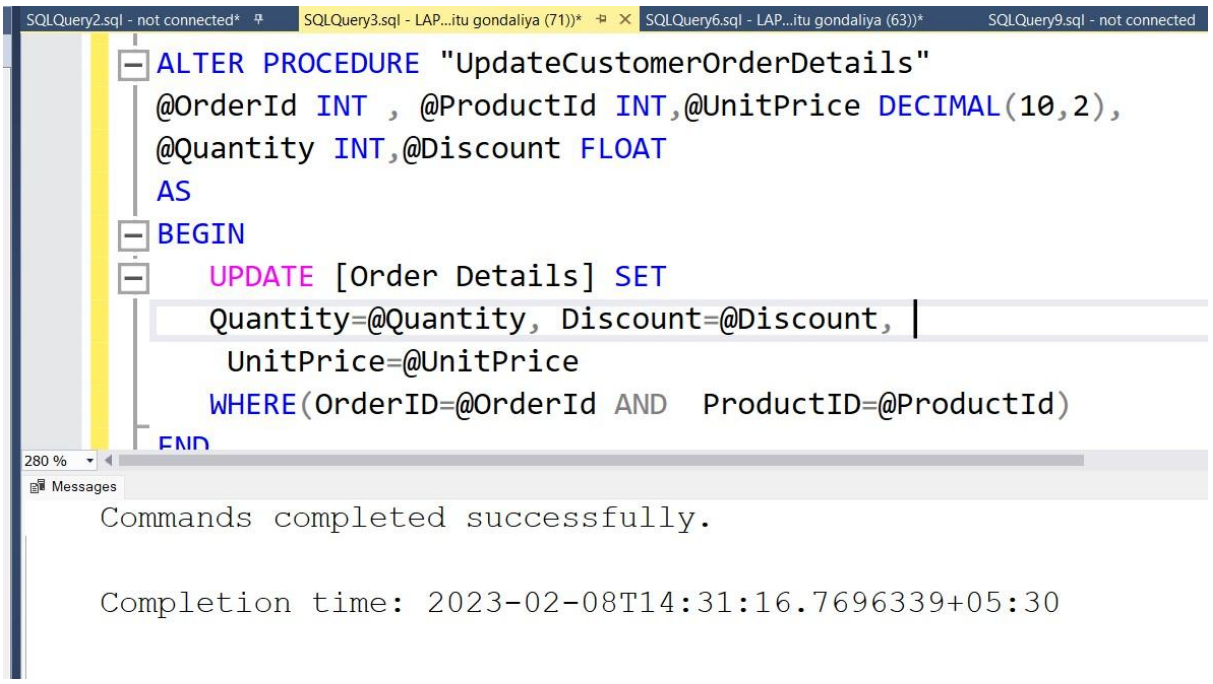


	OrderID	ProductID	UnitPrice	Quantity	Discount
1	10248	10	10.00	2	0.5
2	10248	11	11.00	3	0.6
3	10248	42	9.80	10	0
4	10248	69	10.00	3	0.6
5	10248	70	10.00	3	0.6
6	10248	72	34.80	5	0
7	10249	14	18.60	9	0

*Query 7 :

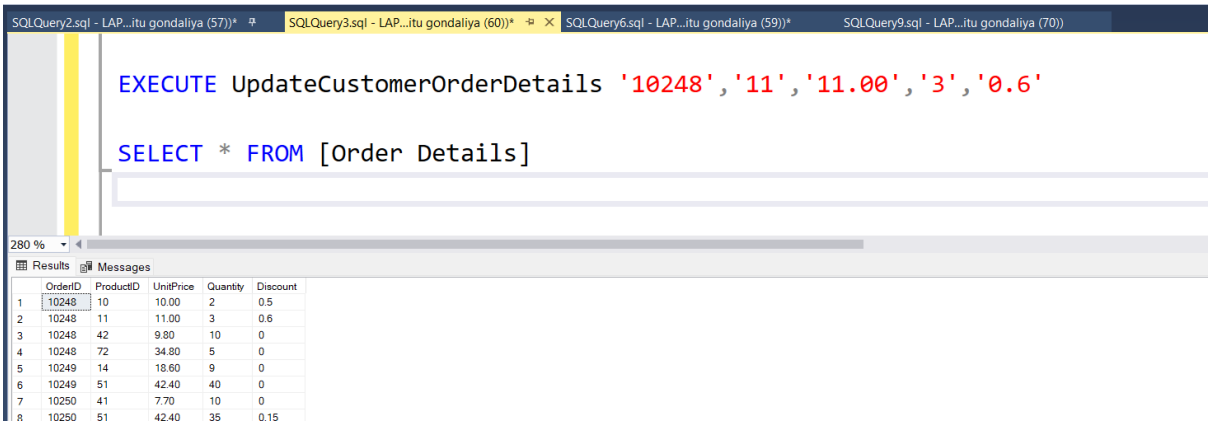
write a SQL query to Create Stored procedure in the Northwind database to update Customer Order Details*/

```
ALTER PROCEDURE "UpdateCustomerOrderDetails"
@OrderId INT , @ProductId INT,@UnitPrice DECIMAL(10,2),
@Quantity INT,@Discount FLOAT
AS
BEGIN
  UPDATE [Order Details] SET
  Quantity=@Quantity, Discount=@Discount,
   UnitPrice=@UnitPrice
  WHERE(OrderID=@OrderId AND  ProductID=@ProductId)
END
```



EXECUTE UpdateCustomerOrderDetails '10248','11','11.00','3','0.6'

SELECT * FROM [Order Details]



	OrderID	ProductID	UnitPrice	Quantity	Discount
1	10248	10	10.00	2	0.5
2	10248	11	11.00	3	0.6
3	10248	42	9.80	10	0
4	10248	72	34.80	5	0
5	10249	14	18.60	9	0
6	10249	51	42.40	40	0
7	10250	41	7.70	10	0
8	10250	51	42.40	35	0.15